RLC ENGINEERING

David P. Estey, P.E.
Principal Electrical Engineer

QUALIFICATIONS

- Thirty-five years of experience in the electric utility and power supply industry with five years devoted to customer service activities in the area of Energy Management/Demand Side Management (DSM); eight years devoted to rate and regulatory activities; and 22 years devoted to electrical engineering and engineering consulting.
- Experienced as an effective leader of technical staff.
- Experienced at Project Management.
- Proficient at project economic analysis.
- Excellent oral and written communication skills.
- Proficient with PSLF, SKM and PSS/E power system models.
- Solid understanding of Power and Control Systems, Demand Side Management (DSM), generator interconnection systems, renewable energy resources and electric service rates and issues.
- Registered Professional Engineer.

PROFESSIONAL EXPERIENCE & ACCOMPLISHMENTS

TECHNICAL

- Designed collector system and transmission interconnection for numerous proposed wind farms in Canada, Maine, Massachusetts, New Hampshire, New York, Texas and Vermont.
- Designed and managed the electrical balance of plant construction for the Norway (9 MW) and West Cape (99 MW) wind projects on Prince Edward Island.
- Experienced with GEWE 1.5, Vestas V80 and V90 wind turbine interconnections.
- Experienced with induction generators and DFIG technology.
- Designed multiple 2.5 MVA medium voltage service additions for Procter & Gamble's Tambrands Facility in Auburn, Maine.
- Performed distribution system impact study on the 15 MW Berkshire Wind Project.
- Designed, managed construction and commissioned electrical collector system and interconnection for the 4.5 MW Freedom Wind and Fox Island Wind Projects.
- Testified before the Vermont Public Service Commission relative to the electric utility system impacts of interconnecting the Sheffield Wind and the Deerfield Wind Projects.
- Conducted economic due diligence reviews for Central Maine Power Company on several alternate energy projects.
- Designed and commissioned 1.7 MW Emergency Power System with automatic transfer for waste water treatment facilities at International Paper's Bucksport mill.
- Conducted an independent review of Bangor Hydro Electric Company’s service quality for the State of Maine on behalf of the Public Advocate’s Office.
- Performed short circuit, protection coordination and arc flash hazard analysis of plant-wide electrical systems at the Kibby Wind Farm, the Stetson Wind Farm, The Jackson Laboratory,

Procter & Gamble's Tambrands Auburn facility and Groveton Paper Board's Groveton facility

- Performed comprehensive EMF surveys and calculations for proposed power plants in Dighton, Massachusetts; Chelsea, Massachusetts; Johnston, Rhode Island; and Tiverton, Rhode Island; Middletown Connecticut; Yarmouth, Massachusetts; Meriden, Connecticut; Norwalk, Connecticut and testified before both the Connecticut and Massachusetts Facility Siting Council on the issue.
- Performed comprehensive EMF analyses for proposed high voltage transmission projects in Rochester, Southampton and Smithtown, New York and submitted testimony before the New York State Public Service Commission on the issue.
- Performed EMF surveys on over 50 residential households, municipal buildings, commercial and industrial facilities.
- Served as owner's representative for the Commissioning of Jamaica Private Power Company's (JPPC) 60 Mw diesel power plant in Kingston, Jamaica.
- Performed detailed surge protection analysis for transmission facilities at International Paper Company, AES Londonderry, Public Service of New Hampshire and Meriden.
- Conducted embedded and marginal cost of service studies and sundry rate design analyses for retail and wholesale rate cases. Developed rate tariffs, rules and regulations and applications for Maine PUC and FERC submissions.
- Testified before the Maine PUC on matters relating to retail cost of service, pole rental rates, and cost effectiveness of DSM programs.
- Conducted seminars on rate and energy management topics.

MANAGEMENT

- Served as Manager of Power System Analysis for TRC Engineers, LLC
- Served as oversight witness for interconnection relay and trip testing for Central Maine Power Company.
- Served as Project Manager of Central Maine Power Company's Generation Management System (GMS), Androscoggin Energy LLC (AELLC), Rumford Power Associates (RPA), and Bucksport Energy, LLC (BELLC) Merchant Plant Projects.
- Managed the Central Maine Power Company's power contracts and joint owner's agreements associated with Maine Yankee, Connecticut Yankee, Vermont Yankee, Yankee Rowe and Millstone Unit 3.
- Served as Director of System Engineering for Central Maine Power responsible for relay and control panel designs for line terminal and transformer panels, procurement specifications for large power transformers, uninterruptable power supplies, battery systems and other electrical components.
- Directed the organization and development of the Electric Council of New England (ECNE) National Conference "Demand-Side Management: Partnerships in Planning" held in Boston, Massachusetts in November of 1989.
- Worked with clients to resolve technical questions related to rates, energy management programs and power quality.

EMPLOYMENT HISTORY

RLC ENGINEERING, LLC – Augusta, ME
2008 – present *Principal Electrical Engineer and Manager of Engineering Services*

TRC/E·PRO ENGINEERING & ENVIRONMENTAL CONSULTING, LLC – Augusta, ME
2006 – 2007 *Manager, Power Systems Studies*
1999 – 2006 *Principal Electrical Engineer*

E·PRO AND CENTRAL MAINE POWER COMPANY – Augusta, ME
1997 – 1999 *Principal Electrical Engineer*
1995 – 1996 *Director of Business Development*

CENTRAL MAINE POWER COMPANY – Augusta, ME
1994 – 1995 *Technical Coordinator, Nuclear and Interim Manager of Electrical Support Services*
1991 – 1993 *Director of System Engineering*
1986 – 1990 *Director of Energy Management Planning*
1984 – 1985 *Director of Costing and Pricing Analysis*
1975 – 1983 *Staff Engineer in the Operating and Rate Departments*

EDUCATION

B. S., Electrical Engineering, University of New Hampshire, 1974
M. S., Management, Thomas College, 1980

PROFESSIONAL AFFILIATIONS / REGISTRATIONS

- Registered Professional Engineer, Maine, #3811, since 1978
- Registered Professional Engineer, New Hampshire, #10409, since 2001
- Registered Professional Engineer, Province of Prince Edward Island, #1140, since 2007